# **EXTERIOR BODY PANELS**



- 1. General Description
- 2. Front Hood
- 3. Front Fender
- 4. Front Door
- 5. Sealing Cover
- 6. Trunk Lid
- 7. Weather Strip

## **EXTERIOR BODY PANELS > General Description**

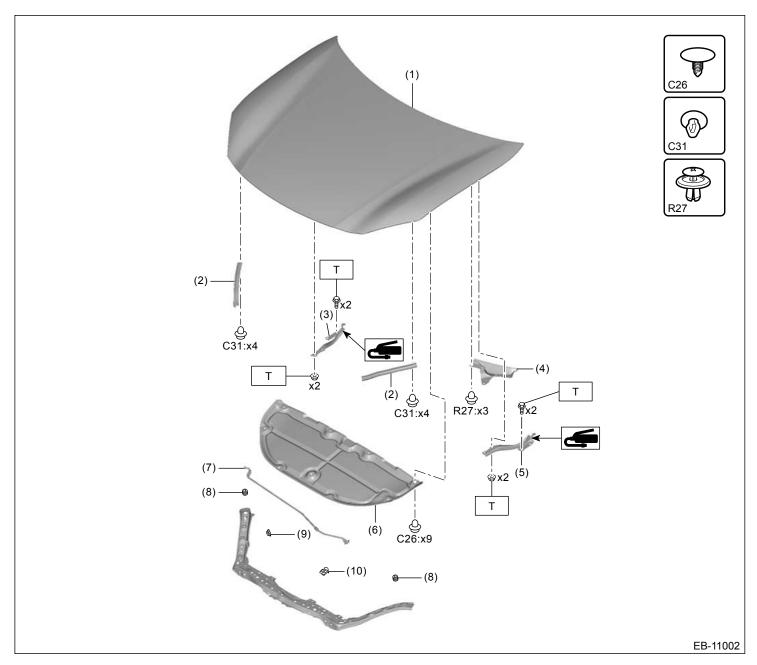
#### **CAUTION**

- When performing service operation, refer to "Repair Contents" in "General Description". <a href="Ref. to REPAIR CONTENTS">Repair Contents</a>.
- When performing any work, always wear work clothes, a work cap and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
- Use SUBARU genuine grease, the recommended or equivalent. Do not mix grease etc. of different grades or manufacturers.
- When performing work on the sensors or modules, be careful of the following.
  - Before disconnecting electrical connectors, be sure to disconnect the ground terminal from the battery sensor.
     Ref. to REPAIR CONTENTS > NOTE > BATTERY.
  - Do not apply any impact. If the parts are accidentally dropped, replace with a new part.
  - Do not expose to high-temperature and humidity.
- When replacing the parts provided with memory functions, record the memory contents before disconnecting the ground terminal from the battery sensor.
- Apply grease onto sliding or revolving surfaces before installation.
- Refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section.
   SYSTEM>General Description>CAUTION.
- Exterior body panels are heavy. When removing or installing, do not drop and damage the panels. Do not damage the panel painting surface.

**EXTERIOR BODY PANELS > General Description** 

COMPONENT

#### 1. FRONT HOOD

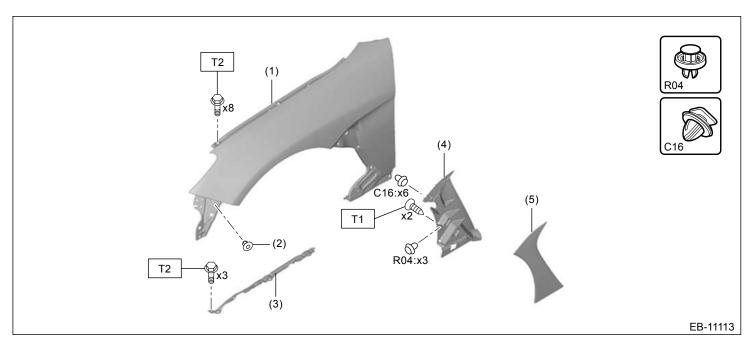


- (1) Hood COMPL front
- (2) Seal ASSY front hood
- (3) Hinge COMPL front hood RH
- (4) Cover hood
- (5) Hinge COMPL front hood LH
- (6) Insulator hood
- (7) Stay ASSY front hood
- (8) Buffer front hood
- (9) Grommet hood stay
- (10) Clamp hood stay

Tightening torque: N⋅m (kgf-m, ft-lb)

T: 25 (2.5, 18.4)

## 2. FRONT FENDER



(1) Fender front

(4) Garnish ASSY fender LWR

Tightening torque: N·m (kgf-m,

ft-lb)

(2) Nutsert

(5) Garnish ASSY fender LWR

T1: 1.5 (0.2, 1.1)

 $OUT^*$ 

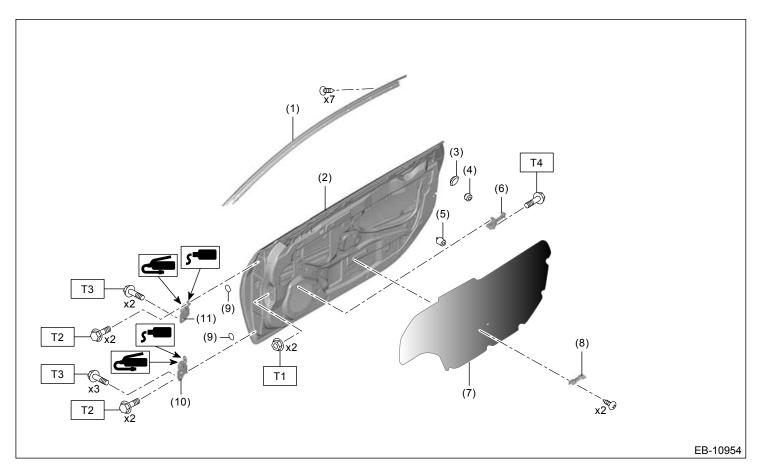
INN\*

(3) Extension fender COMPL

T2: 9 (0.9, 6.6)

## 3. FRONT DOOR

<sup>\*:</sup> Once the garnish assembly fender LWR has been disassembled, it cannot be reused. Ref. to EXTERIOR BODY PANELS>Front Fender>INSTALLATION.



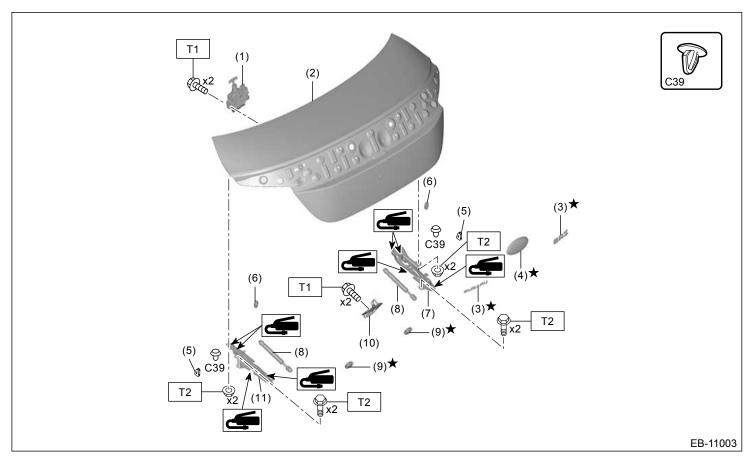
- (1) Retainer and molding ASSY
- (2) Panel COMPL door front
- (3) Plug A
- (4) Stopper rubber A
- (5) Stopper rubber B
- (6) Checker ASSY door front

- (7) Sealing cover door front
- (8) Bracket door
- (9) Plug B
- (10) Hinge ASSY door front LWR
- (11) Hinge ASSY door front UPR

# Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: 7.5 (0.8, 5.5)
  - T2: 25 (2.5, 18.4)
  - T3: 30 (3.1, 22.1)
  - T4: 33 (3.4, 24.3)

## **4. TRUNK LID PANEL**



- (1) Lock ASSY trunk
- (2) Trunk lid COMPL
- (3) Letter mark rear
- (4) Ornament rear
- (5) Stopper hinge
- (6) Stopper A

- (7) Hinge ASSY trunk RH
- (8) Stay ASSY trunk
- (9) Stopper trunk LWR
- (10) Striker trunk
- (11) Hinge ASSY trunk LH

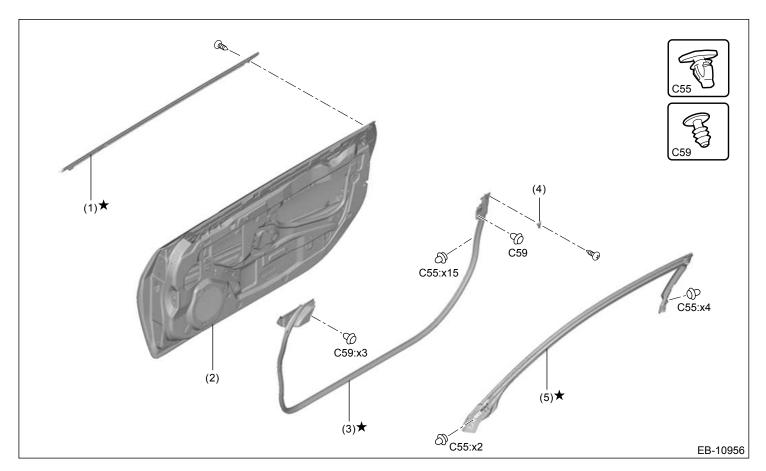
## Tightening torque: N·m (kgf-m,

ft-lb)

T1: 7.5 (0.8, 5.5)

T2: 18 (1.8, 13.3)

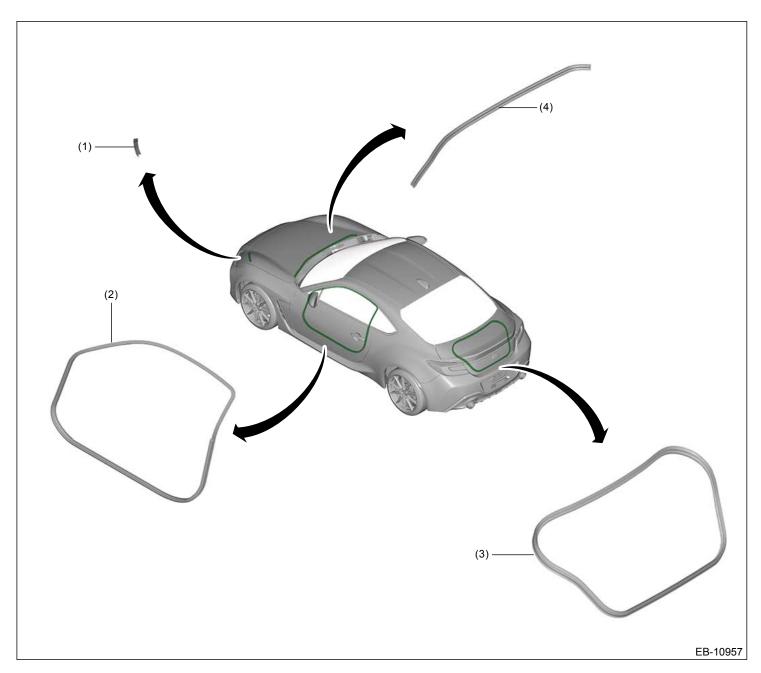
## 5. WEATHER STRIP



(1) Weather strip outer door front (3) Weather strip door front Panel COMPL door front

(2)

- (4) Stopper rubber front UPR
- (5) Weather strip roof side



- (1) Seal ASSY front hood LH
- (3) Weather strip trunk
- (4) Seal cowl panel

(2) Weather strip body side flange front LH

## **EXTERIOR BODY PANELS > General Description**

## **PREPARATION TOOL**

## 1. OTHER

	REMARKS
Floor jack	Used for supporting door panel.

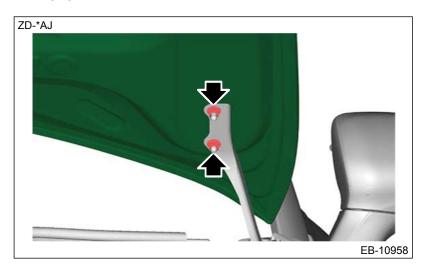
#### **EXTERIOR BODY PANELS > Front Hood**

#### **REMOVAL**

#### Caution:

The hood COMPL front is heavy. When removing and installing it, always work in a team of two or more persons.

- 1. Open the hood COMPL front.
- 2. Remove the nuts from the right and left sides of hood COMPL front side, and remove the hood COMPL front.



#### **EXTERIOR BODY PANELS > Front Hood**

#### **INSTALLATION**

#### Caution:

The hood COMPL front is heavy. When removing and installing it, always work in a team of two or more persons.

1. Install the hood COMPL front.

#### **Tightening torque:**

25 N·m (2.5 kgf-m, 18.4 ft-lb)

**2.** Adjust the clearance around the hood COMPL front. Ref. to EXTERIOR BODY PANELS>Front Hood>ADJUSTMENT.

#### **EXTERIOR BODY PANELS > Front Hood**

#### **DISASSEMBLY**

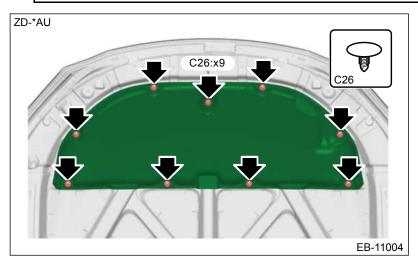
#### Caution:

The hood COMPL front is heavy. When removing or installing the hood COMPL front and the hinge COMPL front hood, be sure to work in a group of two or more.

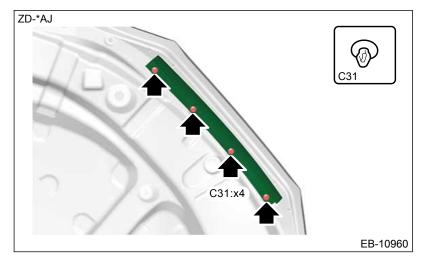
**1.** Remove the clips, and then remove the insulator hood.

#### Caution:

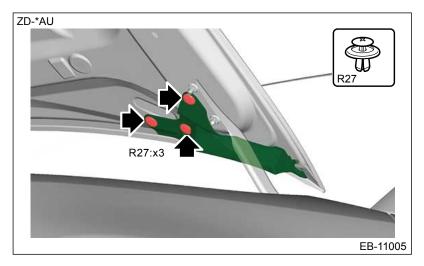
Do not reuse any clips that have been damaged during removal or whose claws have been deformed. Those clips cannot fix the insulator hood securely. Therefore, always replace with a new part.



2. Remove the clips, and remove the left and right seal assembly front hoods.

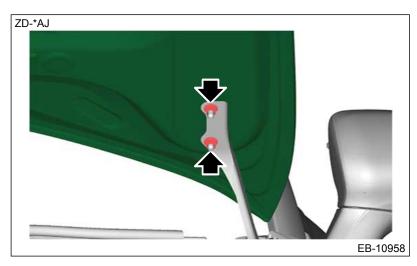


**3.** Remove the clips, and remove the cover hood.

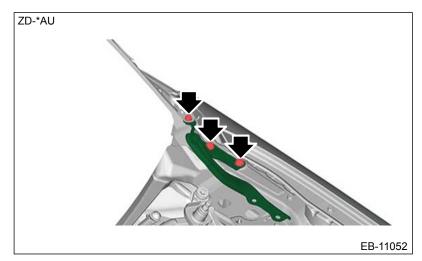


4. Remove the nuts from the right and left sides of hood COMPL front side, and remove the hood COMPL

#### front.



- **5.** Remove the arm assembly windshield wiper. Ref. to WIPER AND WASHER SYSTEMS>Front Wiper Arm>REMOVAL.
- **6.** Remove the cowl panel side and the cowl panel assembly. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>REMOVAL.
- **7.** Remove the bolts, and remove the hinge COMPL front hood on the right and left sides from the body.



#### **EXTERIOR BODY PANELS > Front Hood**

## **ASSEMBLY**

#### Caution:

The hood COMPL front is heavy. When removing or installing the hood COMPL front and the hinge COMPL front hood, be sure to work in a group of two or more.

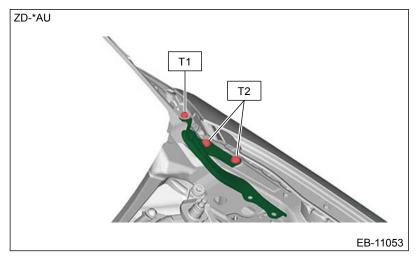
1. Apply grease to the sliding area of the hinge COMPL front hood, and install it to the vehicle.

## **Preparation items:**

Grease: NIPPECO LTS-1N18L or equivalent

#### **Tightening torque:**

T1: 9 N·m (0.9 kgf-m, 6.6 ft-lb) T2: 25 N·m (2.5 kgf-m, 18.4 ft-lb)



- 2. Install the cowl panel assembly and the cowl panel side. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>INSTALLATION.
- 3. Install the arm assembly windshield wiper. Ref. to WIPER AND WASHER SYSTEMS>Front Wiper Arm>INSTALLATION.
- **4.** Install the hood COMPL front.

## **Tightening torque:**

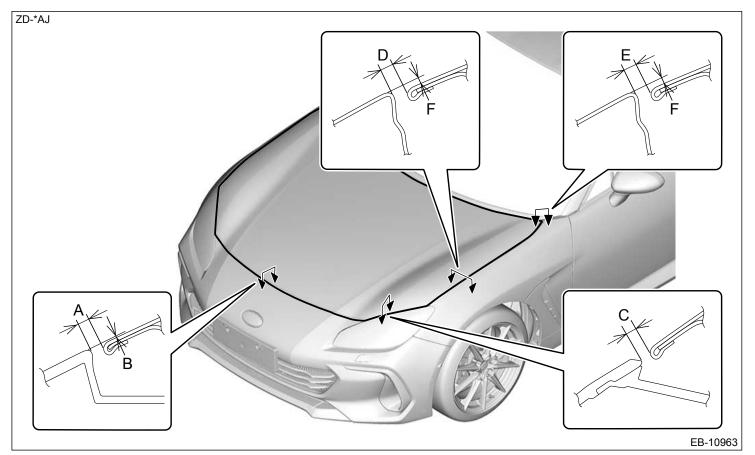
25 N·m (2.5 kgf-m, 18.4 ft-lb)

- **5.** Install the cover hood.
- **6.** Install the seal assembly front hood.
- **7.** Install the insulator hood.

## **EXTERIOR BODY PANELS > Front Hood**

#### **ADJUSTMENT**

Adjust the dimension between panels around the front hood as follows.



Part		Standard
Α	Hood COMPL front to Bumper face front	3.5±2 mm (0.14±0.08 in)
В	Surface level gap between Hood COMPL front and Bumper face	0.7 <sup>+1.3 mm</sup> <sub>-2.7mm</sub>
	front	$(0.03^{+0.05 \text{ in}}_{-0.11 \text{ in}})$
С	Hood COMPL front to Light assembly head	3±2 mm (0.12±0.08 in)
D	Hood COMPL front to Fender front	3.5±1.5 mm (0.14±0.06 in)
Е	Hood COMPL front to Fender front	3.5±1 mm (0.14±0.04 in)
F	Surface level gap: Hood COMPL front to Fender front	0±1 mm (0±0.04 in)

- 1. Remove the arm assembly windshield wiper. Ref. to WIPER AND WASHER SYSTEMS>Front Wiper Arm>REMOVAL.
- 2. Remove the cowl panel side and the cowl panel assembly. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>REMOVAL.
- **3.** Adjust the horizontal position of the hood COMPL front.
  - (1) Loosen the attaching bolts of the hinge COMPL front hood on the right and left sides.

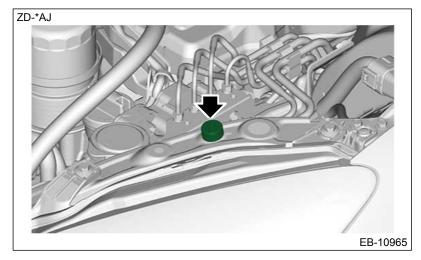


(2) Adjust the horizontal clearance of the hood COMPL front, and tighten the attaching bolts of the hinge COMPL front hood.

## **Tightening torque:**

25 N·m (2.5 kgf-m, 18.4 ft-lb)

- **4.** Adjust the front end height of the hood COMPL front. Ref. to SECURITY AND LOCKS>Front Hood Lock Assembly>ADJUSTMENT.
- 5. Rotate the right and left buffer front hoods to adjust the height.

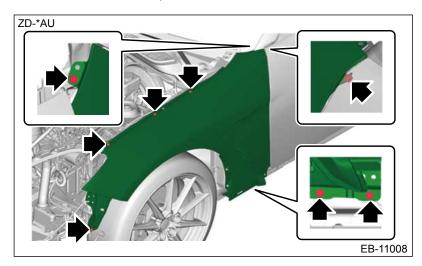


- **6.** Install the cowl panel assembly and the cowl panel side. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>INSTALLATION.
- 7. Install the arm assembly windshield wiper. Ref. to WIPER AND WASHER SYSTEMS>Front Wiper Arm>INSTALLATION.

#### **EXTERIOR BODY PANELS > Front Fender**

#### **REMOVAL**

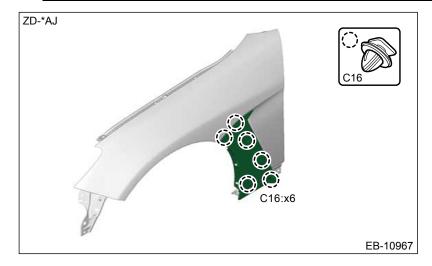
- 1. Disconnect the ground terminal from battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.
- **2.** Remove the bumper face front. Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>REMOVAL > BUMPER FACE.
- **3.** Remove the bracket side front. Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>REMOVAL > BUMPER BRACKET.
- 4. Remove the light assembly head. Ref. to LIGHTING SYSTEM>Headlight Assembly>REMOVAL.
- 5. Remove the cowl panel side. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>REMOVAL.
- 6. Remove the mud guard front. Ref. to EXTERIOR/INTERIOR TRIM>Mud Guard>REMOVAL.
- 7. Remove the spoiler assembly side sill. Ref. to EXTERIOR/INTERIOR TRIM>Side Spoiler>REMOVAL.
- **8.** Remove the bolts, and remove the fender front.



**9.** Remove the garnish assembly fender LWR from the fender front.

#### Note:

Perform this procedure only when required.



**EXTERIOR BODY PANELS > Front Fender** 

**INSTALLATION** 

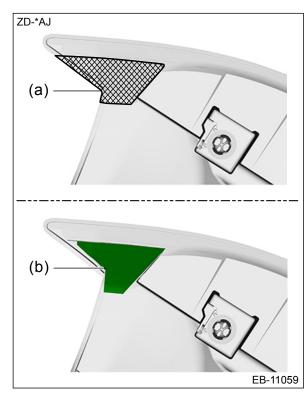
#### 1. WHEN REUSING THE GARNISH ASSEMBLY FENDER LWR

- 1. Install the garnish assembly fender LWR to the fender front.
  - (1) Degrease and apply primer to the adhesive surface (a) of the garnish tape on the garnish assembly fender LWR INN.

## **Preparation items:**

Primer: 3M K520 or equivalent

(2) Attach the garnish tape (b) to the garnish assembly fender LWR INN.



- (3) Install the garnish assembly fender LWR to the fender front.
- 2. Install the fender front.

#### **Tightening torque:**

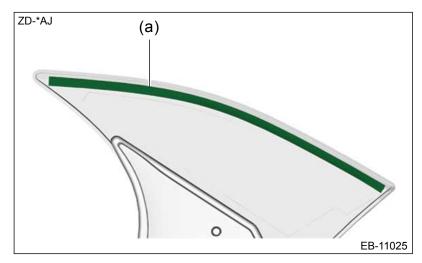
9 N·m (0.9 kgf-m, 6.6 ft-lb)

- **3.** Adjust the panel gap around the fender front.
  - Fender front to Hood COMPL front: Ref. to EXTERIOR BODY PANELS>Front Hood>ADJUSTMENT.
  - Fender front to Panel COMPL door front: Ref. to EXTERIOR BODY PANELS>Front Door>ADJUSTMENT.
- **4.** Install the spoiler assembly side sill. Ref. to EXTERIOR/INTERIOR TRIM>Side Spoiler>INSTALLATION.
- 5. Install the mud guard front. Ref. to EXTERIOR/INTERIOR TRIM>Mud Guard>INSTALLATION.
- 6. Install the cowl panel side. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>INSTALLATION.
- 7. Install the light assembly head. <a> Ref. to LIGHTING SYSTEM>Headlight Assembly>INSTALLATION.</a>
- **8.** Install the bracket side front. <a>Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>INSTALLATION > BUMPER BRACKET.</a>
- **9.** Install the bumper face front. Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>INSTALLATION > BUMPER FACE.
- 10. Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS>NOTE > BATTERY.

# 2. WHEN REPLACING THE GARNISH ASSEMBLY FENDER LWR WITH A NEW ONE

1. Install the garnish assembly fender LWR to the fender front.

(1) Attach the garnish cushion (a) to the garnish assembly fender LWR OUT.

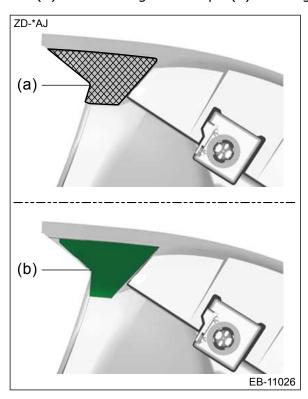


(2) Degrease and apply primer to the adhesive surface (a) of the garnish tape on the garnish assembly fender LWR INN.

## **Preparation items:**

Primer: 3M K520 or equivalent

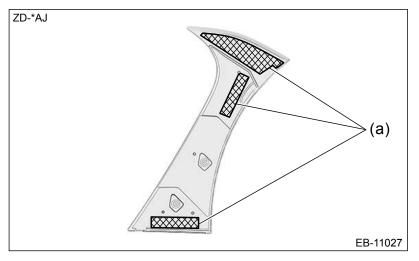
(3) Attach the garnish tape (b) to the garnish assembly fender LWR INN.



(4) Degrease and apply primer to the adhesive surface (a) of the double-sided tape on the garnish assembly fender LWR OUT.

#### **Preparation items:**

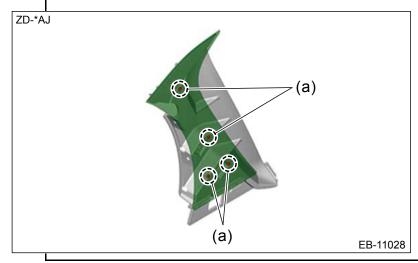
Primer: 3M K520 or equivalent



(5) Peel off the backing sheet of the double-sided tape on the garnish assembly fender LWR INN, and install the garnish assembly fender LWR OUT.

## Note:

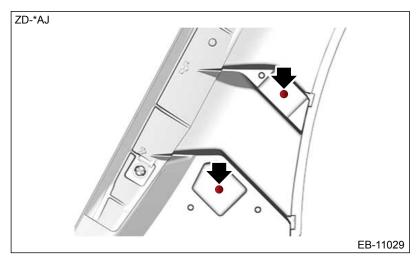
Attach the pins (a) on the garnish assembly fender LWR OUT, and then install the garnish assembly fender LWR INN.



(6) Install the screws that secure the garnish assembly fender LWR OUT and the garnish assembly fender LWR INN.

## **Tightening torque:**

1.5 N·m (0.2 kgf-m, 1.1 ft-lb)



- (7) Install the garnish assembly fender LWR to the fender front.
- 2. Install the fender front.

#### **Tightening torque:**

9 N·m (0.9 kgf-m, 6.6 ft-lb)

- 3. Adjust the panel gap around the fender front.
  - Fender front to Hood COMPL front: Ref. to EXTERIOR BODY PANELS>Front Hood>ADJUSTMENT.
  - Fender front to Panel COMPL door front: Ref. to EXTERIOR BODY PANELS>Front Door>ADJUSTMENT.
- **4.** Install the spoiler assembly side sill. Ref. to EXTERIOR/INTERIOR TRIM>Side Spoiler>INSTALLATION.
- 5. Install the mud guard front. Ref. to EXTERIOR/INTERIOR TRIM>Mud Guard>INSTALLATION.
- 6. Install the cowl panel side. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>INSTALLATION.
- 7. Install the light assembly head. a Ref. to LIGHTING SYSTEM>Headlight Assembly>INSTALLATION.
- **8.** Install the bracket side front. Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>INSTALLATION > BUMPER BRACKET.
- **9.** Install the bumper face front. Ref. to EXTERIOR/INTERIOR TRIM>Front Bumper>INSTALLATION > BUMPER FACE.
- 10. Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

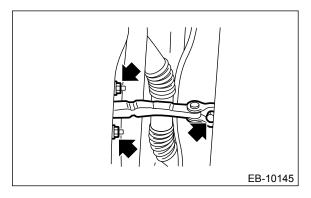
#### 1. FRONT DOOR PANEL

#### Caution:

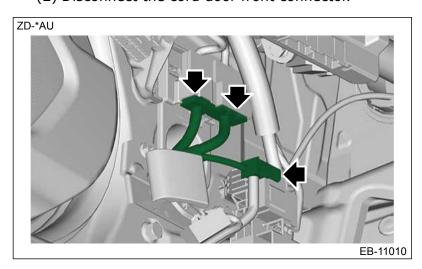
- Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM".
   Description>CAUTION.
- The panel COMPL door front is heavy. When removing and installing it, always work in a team of two or more persons.
- 1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>REMOVAL.
- 3. Remove the sealing cover door front. Ref. to EXTERIOR BODY PANELS>Sealing Cover>REMOVAL.
- **4.** Remove the outer mirror assembly. Ref. to GLASS/WINDOWS/MIRRORS>Outer Mirror Assembly>REMOVAL.
- **5.** Remove the speaker assembly front. Ref. to ENTERTAINMENT & MONITORING>Front Speaker>REMOVAL > DOOR.
- **6.** Remove the side impact sensor (front door). Ref. to AIRBAG SYSTEM>Impact Sensor>REMOVAL > SIDE IMPACT SENSOR (FRONT DOOR).
- **7.** Remove the sash assembly front door rear and glass assembly front door. <a href="Mailto:Ref. to GLASS/WINDOWS/MIRRORS>Front Door Glass>REMOVAL">FRONT DOOR GLASS</a>.
- **8.** Remove the glass assembly front door partition. Ref. to GLASS/WINDOWS/MIRRORS>Front Door Glass>REMOVAL > FRONT DOOR PARTITION GLASS.
- **9.** Remove the weather strip outer door front. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP OUTER DOOR FRONT.
- **10.** Remove the regulator & motor assembly front. Regulator and Motor Assembly REMOVAL.
- **11.** Remove the handle front door outer. Ref. to SECURITY AND LOCKS>Door Outer Handle>REMOVAL.
- **12.** Remove the latch and actuator assembly front. Ref. to SECURITY AND LOCKS>Door Latch & Door Lock Actuator Assembly>REMOVAL.
- **13.** Remove the weather strip door front. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP DOOR FRONT.
- **14.** Remove the plug.
- **15.** Remove the stopper rubber.



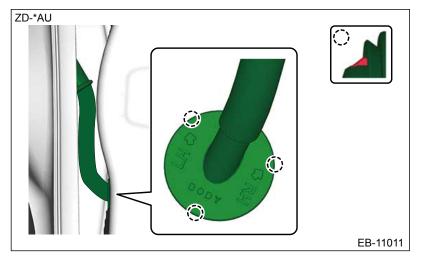
16. Remove the bolts and nuts, and then detach the checker assembly door front.



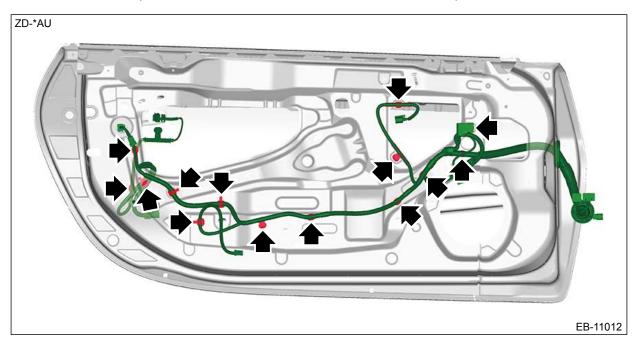
- **17.** Disconnect the cord door front connector.
  - (1) Remove the cover side sill front Ft. Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>REMOVAL.
  - (2) Disconnect the cord door front connector.



(3) Push in the claws to remove the grommet, and pull out the cord door front connector.



18. Remove the clips, and remove the cord door front from the panel COMPL door front.

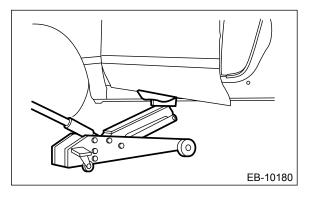


19. Before removing the panel COMPL door front, make the following preparations.

#### Caution:

Do not lift the panel COMPL door front with a floor jack excessively. The hinge assembly door front may be damaged.

- (1) Put a wooden block on a floor jack and place the floor jack under the panel COMPL door front.
- (2) Support the panel COMPL door front with the floor jack to protect it from damage.



- **20.** Remove the bolts on the side of the panel COMPL door front of the hinge assembly door front UPR and the hinge assembly door front LWR, and remove the panel COMPL door front.
- **21.** Remove the hinge assembly door front from the vehicle.

Note:

Perform this procedure only when required.

**22.** Remove the weather strip roof side. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP ROOF SIDE.

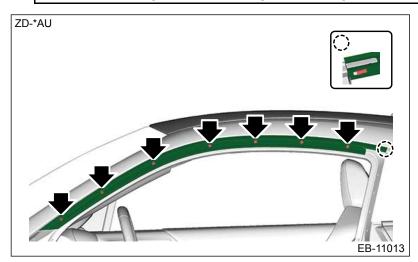
#### Note:

Perform this procedure only when required.

23. Remove the screws and release the claws, and then remove the retainer and molding assembly.

#### Note:

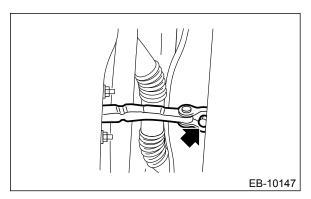
Perform this procedure only when required.



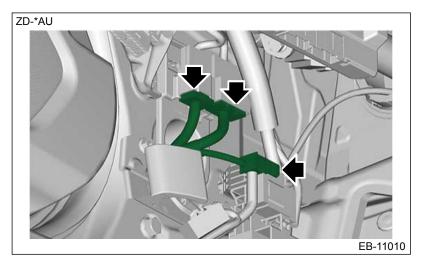
#### 2. FRONT DOOR HINGE

## Caution:

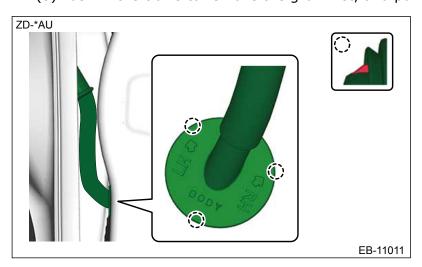
- Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM".
   Description>CAUTION.
- The panel COMPL door front is heavy. When removing and installing it, always work in a team of two or more persons.
- 1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the bolts on the vehicle side to disconnect the checker assembly door front.



- 3. Disconnect the cord door front connector.
  - (1) Remove the cover side sill front Ft. Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>REMOVAL.
  - (2) Disconnect the cord door front connector.



(3) Push in the claws to remove the grommet, and pull out the cord door front connector.



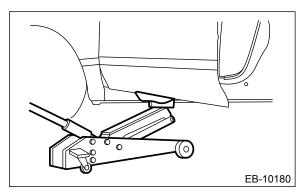
**4.** Before removing the hinge assembly door front, make the following preparations.

#### Caution:

Do not lift the panel COMPL door front with a floor jack excessively. The hinge assembly door front may be damaged.

(1) Put a wooden block on a floor jack and place the floor jack under the panel COMPL door front.

(2) Support the panel COMPL door front with the floor jack to protect it from damage.



**5.** Remove the bolts on the side of the panel COMPL door front of the hinge assembly door front UPR or the hinge assembly door front LWR.

#### Caution:

Do not remove the hinge assembly front door UPR and the hinge assembly front door LWR at the same time.

**6.** Remove the hinge assembly door front from the vehicle.

#### **EXTERIOR BODY PANELS > Front Door**

#### INSTALLATION

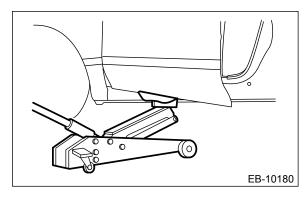
#### 1. FRONT DOOR PANEL

#### Caution:

- Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM".
   Description>CAUTION.
- The panel COMPL door front is heavy. When removing and installing it, always work in a team of two or more persons.
- When the panel COMPL door front or the hinge assembly door front is replaced with a new part, apply sealer to the hinge assembly door front contacting surface.
   Preparation items:

Sealer: BAYER SILICONE SEALANT or equivalent

- **1.** Install the retainer and molding assembly.
- 2. Install the weather strip roof side. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP ROOF SIDE.
- 3. Put a wooden block on a floor jack and place the panel COMPL door front on it.



**4.** Apply grease to the sliding area of hinge assembly door front, and install to vehicle.

#### **Preparation items:**

Grease: NIPPECO LT-1N or equivalent Ref. to RECOMMENDED MATERIALS>GREASE>DOOR.

#### **Tightening torque:**

30 N·m (3.1 kgf-m, 22.1 ft-lb)

**5.** Temporarily install the panel COMPL door front to the hinge assembly door front UPR and the hinge assembly door front LWR after adjusting the height by the floor jack.

#### Note:

- When installing the panel COMPL door front, make sure that a uniform clearance is created around the panel.
- Perform installation while paying attention to the assembly direction of the grommet.
- **6.** Adjust the clearance around the panel COMPL door front. Ref. to EXTERIOR BODY PANELS>Front Door>ADJUSTMENT.
- 7. Tighten the mounting bolts of the panel COMPL door front to the specified torque.

#### **Tightening torque:**

25 N·m (2.5 kgf-m, 18.4 ft-lb)

- 8. Install the cord door front.
- **9.** Install the checker assembly door front.

#### **Caution:**

When fastening the checker assembly door front and the vehicle, hold the arm by hand so that the bracket does not rotate while tightening the bolts.

#### **Tightening torque:**

Refer to "COMPONENT" of "General Description" for the tightening torque. Ref. to EXTERIOR BODY PANELS>General Description>COMPONENT > FRONT DOOR.

- **10.** Install the stopper rubber.
- **11.** Install the plugs.
- **12.**Install the weather strip door front. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP DOOR FRONT.
- **13.** Install the latch and actuator assembly front. Ref. to SECURITY AND LOCKS>Door Latch & Door Lock Actuator Assembly>INSTALLATION.
- **14.** Install the handle front door outer. Ref. to SECURITY AND LOCKS>Door Outer Handle>INSTALLATION.
- **15.**Install the regulator & motor assembly front. Regulator and Motor Assembly>INSTALLATION.
- **16.** Install the weather strip outer door front. Ref. to EXTERIOR BODY PANELS>Weather

- <u>Strip>REPLACEMENT > WEATHER STRIP OUTER DOOR FRONT.</u>
- **17.** Install the glass assembly front door partition. Ref. to GLASS/WINDOWS/MIRRORS>Front Door Glass>INSTALLATION > FRONT DOOR PARTITION GLASS.
- **18.** Install the sash assembly front door rear and glass assembly front door. <u>Ref. to GLASS/WINDOWS/MIRRORS>Front Door Glass>INSTALLATION > FRONT DOOR GLASS.</u>
- **19.**Install the side impact sensor (front door). Ref. to AIRBAG SYSTEM>Impact Sensor>INSTALLATION > SIDE IMPACT SENSOR (FRONT DOOR).
- **20.** Install the speaker assembly front. Ref. to ENTERTAINMENT & MONITORING>Front Speaker>INSTALLATION > DOOR.
- **21.**Install the outer mirror assembly. Ref. to GLASS/WINDOWS/MIRRORS>Outer Mirror Assembly>INSTALLATION.
- **22.** Install the sealing cover door front. Ref. to EXTERIOR BODY PANELS>Sealing Cover>INSTALLATION.
- 23. Install the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>INSTALLATION.
- **24.** Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

#### 2. FRONT DOOR HINGE

#### **Caution:**

- Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM".
   Description>CAUTION.
- The panel COMPL door front is heavy. When removing and installing it, always work in a team of two or more persons.
- When the panel COMPL door front or the hinge assembly door front is replaced with a new part, apply sealer to the hinge assembly door front contacting surface.

#### **Preparation items:**

Sealer: BAYER SILICONE SEALANT or equivalent

1. Apply grease to the sliding area of hinge assembly door front, and install to vehicle.

#### **Preparation items:**

Grease: NIPPECO LT-1N or equivalent Ref. to RECOMMENDED MATERIALS>GREASE>DOOR.

#### **Tightening torque:**

30 N·m (3.1 kgf-m, 22.1 ft-lb)

2. Temporarily install the panel COMPL door front to the hinge assembly door front UPR and the hinge assembly door front LWR after adjusting the height by the floor jack.

#### Note:

- When installing the panel COMPL door front, make sure that a uniform clearance is created around the panel.
- Perform installation while paying attention to the assembly direction of the grommet.
- **3.** Adjust the clearance around the panel COMPL door front. Ref. to EXTERIOR BODY PANELS>Front Door>ADJUSTMENT.
- 4. Tighten the mounting bolts of the panel COMPL door front to the specified torque.

#### **Tightening torque:**

25 N·m (2.5 kgf-m, 18.4 ft-lb)

- 5. Install the cord door front.
- **6.** Install the checker assembly door front.

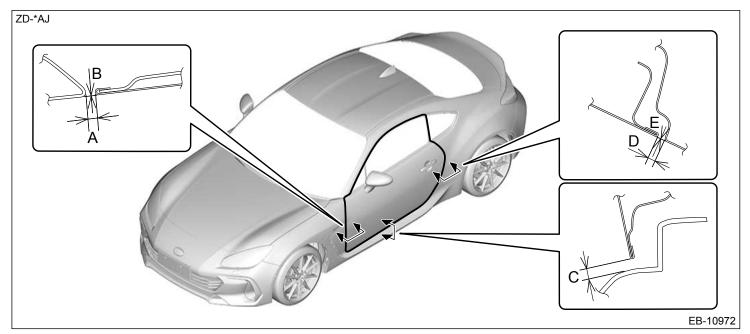
#### **Tightening torque:**

- 33 N·m (3.4 kgf-m, 24.3 ft-lb)
- 7. Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

#### **EXTERIOR BODY PANELS > Front Door**

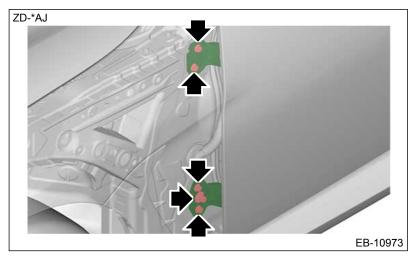
#### **ADJUSTMENT**

Adjust the clearance around the panel COMPL door front as follows.



Part		Standard
Α	Fender front to Panel COMPL door front	4.6 <sup>+1.5 mm</sup> <sub>-1 mm</sub>
		(0.18 <sup>+0.06</sup> in <sub>-0.04</sub> in)
В	Surface level gap: Fender front to Panel COMPL door front	0 <sup>+1.5mm</sup> <sub>-1 mm</sub>
		(0 <sup>+0.06</sup> in one of in)
С	Panel COMPL door front to Spoiler assembly side sill	6±2.3 mm (0.24±0.09 in)
D	Panel COMPL door front to Panel side outer	4±1 mm (0.16±0.04 in)
Е	Surface level gap: Panel COMPL door front to Panel side outer	0±1.5 mm (0±0.06 in)

- 1. Adjust the vertical and horizontal positions of the panel COMPL door front.
  - (1) Turn over the mud guard front. Ref. to EXTERIOR/INTERIOR TRIM>Mud Guard>REMOVAL.
  - (2) Loosen the vehicle side bolts of the hinge assembly door front UPR and the hinge assembly door front LWR.



- (3) Adjust the vertical and horizontal clearance of the panel COMPL door front.
- 2. Adjust the surface level gap between the panel COMPL door front and panel side outer.

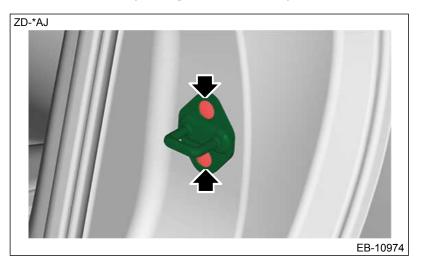
#### Caution:

Do not use an impact wrench. Welding area on the striker nut plate is easily broken.

- (1) Loosen the screws.
- (2) Lightly tap the striker front door using a plastic hammer to adjust the surface level gap between the rear end of the panel COMPL door front and the front end of the panel side outer.
- (3) Tighten the screws.

#### **Tightening torque:**

18 N·m (1.8 kgf-m, 13.3 ft-lb)



3. Adjust the front door glass. <a> Ref. to GLASS/WINDOWS/MIRRORS>Front Door Glass>ADJUSTMENT.</a>

## **EXTERIOR BODY PANELS > Sealing Cover**

#### REMOVAL

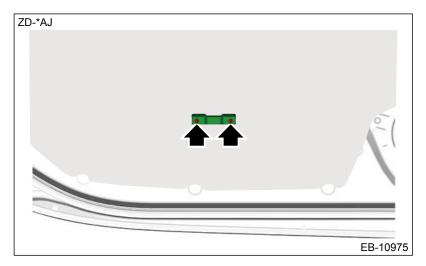
#### Caution:

Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM". Ref. to AIRBAG SYSTEM>General Description>CAUTION.

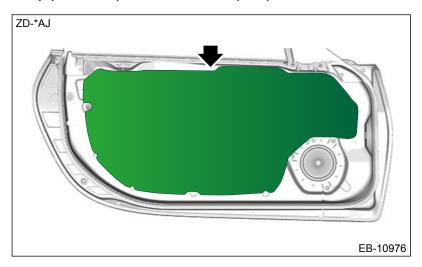
- 1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>REMOVAL.
- **3.** Remove the sealing cover door front.

## **Caution:**

- Carefully remove the butyl tape. Excessive force will easily break the cover.
- Be careful not to allow the butyl tape to contact any trims and seats because the butyl tape, which has a strong adhesive force, is difficult to remove once it adhered.
- (1) Remove the screws to remove the bracket door.



- (2) Remove the connectors and clips.
- (3) Carefully remove the butyl tape to remove the sealing cover door front.



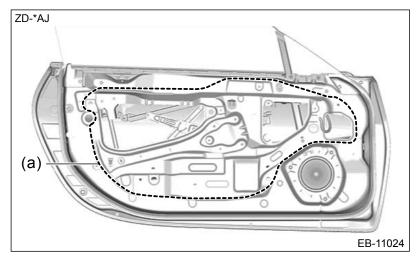
#### **INSTALLATION**

#### Caution:

- Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM".
   <u>Ref. to AIRBAG SYSTEM>General</u>
   <u>Description>CAUTION.</u>
- If the sealing cover gets broken, replace it with a new part.
- Attach the sealing cover, keeping it from becoming wrinkled.
- Do not drill any additional holes into the cylinder cover. If the door inner pressure cannot be maintained, the Side impact sensor (front door) may not function correctly.
- When installing the sealing cover, make sure it is aligned properly. Failure to do so may lead to improper door trim installation or water leakage.
- Apply a butyl tape evenly. Breaks in the bead will allow water leakage and contamination.
- 1. Install the sealing cover door front.
  - (1) When replacing the sealing cover door front, use the butyl tape.

#### **Preparation items:**

Butyl tape: 3M Butyl Tape 8626 or equivalent



- (a) Application position of butyl tape
- (2) Forcefully push the butyl tape portion to prevent any floating on surface.
- (3) Install the connectors and clips.
- (4) Install the bracket door.
- 2. Install the trim panel front door. <a> Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>INSTALLATION</a>.
- 3. Connect the ground terminal to battery sensor. September 15 Ref. to REPAIR CONTENTS NOTE > BATTERY.

## **EXTERIOR BODY PANELS > Sealing Cover**

#### **INSPECTION**

If the sealing cover gets damaged, replace it with a new part.

#### **EXTERIOR BODY PANELS > Trunk Lid**

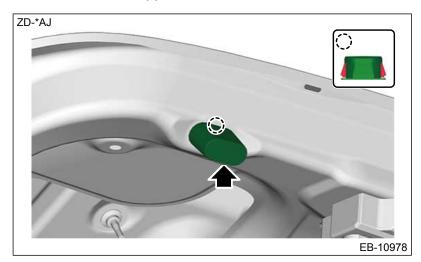
#### **REMOVAL**



#### Caution:

Trunk lid COMPL is heavy. When removing and installing it, always work in a team of two or more persons.

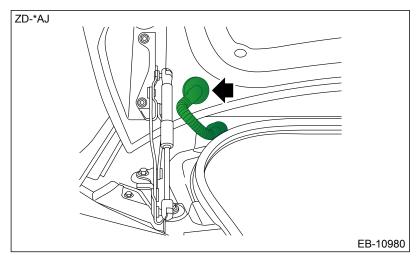
- 1. Disconnect the ground terminal from battery sensor. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the trim panel trunk lid. Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>REMOVAL.
- 3. Remove the stopper trunk LWR LH and RH.



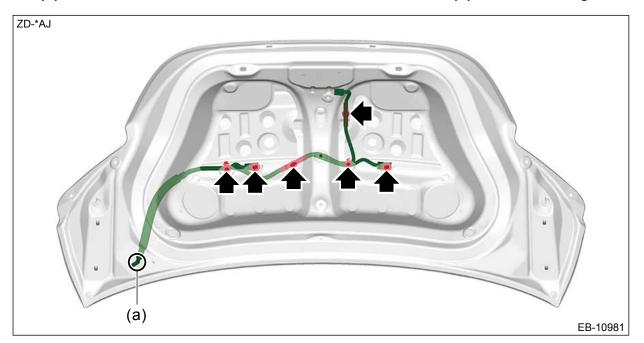
4. Remove the left and right stoppers A.



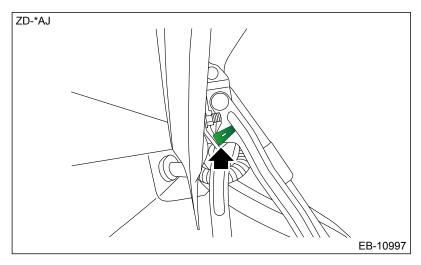
- **5.** Remove the lock assembly trunk lid. Ref. to SECURITY AND LOCKS>Trunk Lid Latch and Actuator Assembly>REMOVAL.
- 6. Remove the garnish assembly trunk. <a>Ref. to EXTERIOR/INTERIOR TRIM>Trunk Garnish>REMOVAL</a>.
- **7.** Remove the grommet.



- **8.** Remove the cord trunk lid.
  - (1) Remove the harness clip.
  - (2) Disconnect the cord trunk lid from the trunk lid COMPL (a) shown in the figure.



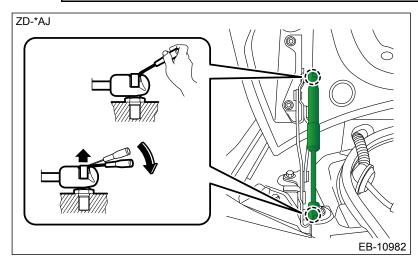
- **9.** Remove the left and right stay assembly trunks.
  - (1) Remove the stopper hinge.



(2) Gently push a flat tip screwdriver or similar tool against the ball stud, and raise the stop ring.

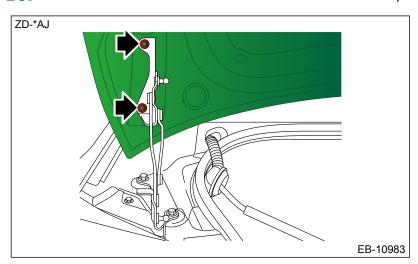
#### Caution:

Do not remove the stop ring completely. Raise it just enough to be able to remove the stay assembly trunk from the ball stud.



(3) Pull the stay assembly trunk toward you, and remove it from the ball stud.

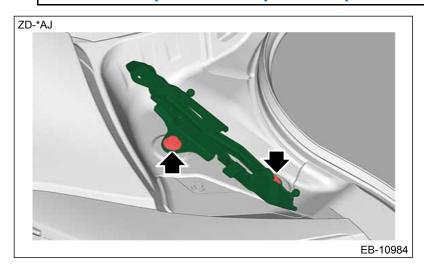




11. Remove the bolts, and then remove the left and right hinge assembly trunks.

## Note:

Perform this procedure only when required.



#### **EXTERIOR BODY PANELS > Trunk Lid**

#### INSTALLATION

## Caution:

- Trunk lid COMPL is heavy. When removing and installing it, always work in a team of two or more persons.
- For parts which are not reusable, always use new parts.
- 1. Apply grease to the sliding area of the hinge assembly trunk, and install it to the vehicle.

#### **Preparation items:**

Grease: NIPPECO LTS-1N18L or equivalent

#### **Tightening torque:**

18 N·m (1.8 kgf-m, 13.3 ft-lb)

2. Install the trunk lid COMPL.

#### **Tightening torque:**

18 N·m (1.8 kgf-m, 13.3 ft-lb)

- Install the stay assembly trunk.
- 4. Install the stopper hinge.
- 5. Install the cord trunk lid.
- **6.** Install the grommet.
- 7. Install the garnish assembly trunk. Ref. to EXTERIOR/INTERIOR TRIM>Trunk
  Garnish>INSTALLATION.
- **8.** Install the lock assembly trunk lid. Ref. to SECURITY AND LOCKS>Trunk Lid Latch and Actuator Assembly>INSTALLATION.
- 9. Install the stopper A.
- 10. Install a new stopper trunk LWR.
- **11.** Install the trim panel trunk lid. Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>INSTALLATION.
- 12. Adjust the clearance around the trunk lid COMPL. Ref. to EXTERIOR BODY PANELS>Trunk

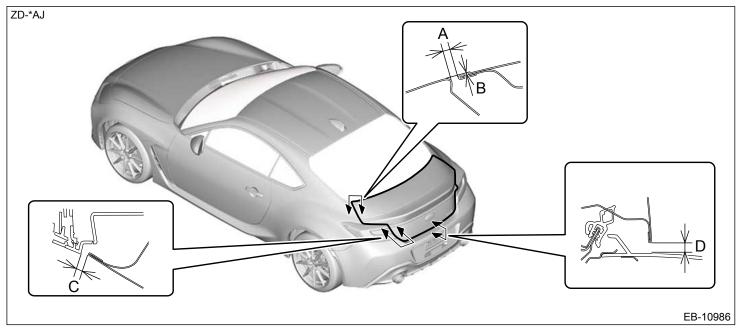
## Lid>ADJUSTMENT.

13. Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

## **EXTERIOR BODY PANELS > Trunk Lid**

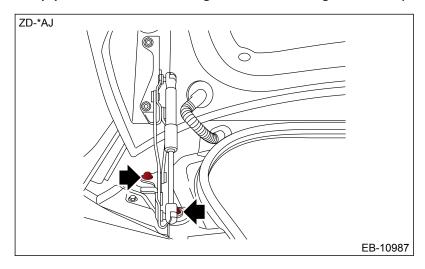
#### **ADJUSTMENT**

Adjust the clearance around the trunk lid COMPL as follows.



Part		Standard
Α	Trunk lid COMPL and Panel side outer	3.5±1.5 mm (0.14±0.06 in)
В	Surface level gap between Trunk lid COMPL and Panel side	−0.5±1.5 mm
	outer	$(-0.02\pm0.06 \text{ in})$
С	Trunk lid COMPL to Light assembly rear combination	6.5±1.8 mm (0.26±0.07 in)
D	Trunk lid COMPL to Bumper face rear	8±2 mm (0.31±0.08 in)

- 1. Adjust the horizontal position of the trunk lid COMPL.
  - (1) Loosen the mounting bolts of the hinge assembly trunk LH and RH.



(2) Adjust the horizontal panel gap of the trunk lid COMPL, and tighten the mounting bolts of the hinge assembly trunk.

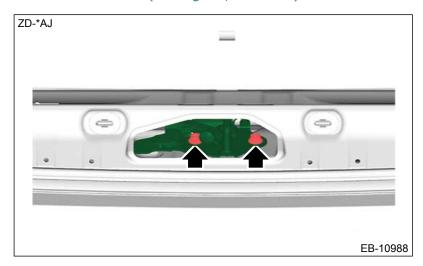
#### **Tightening torque:**

18 N·m (1.8 kgf-m, 13.3 ft-lb)

- 2. Adjust the surface level gap between the trunk lid COMPL and the body.
  - (1) Remove the trim panel trunk rear. Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>REMOVAL.
  - (2) Loosen the bolt.
  - (3) Tap the striker trunk using a plastic hammer to adjust the surface level gap between the trunk lid COMPL and the body.
  - (4) Tighten the bolt.

## **Tightening torque:**

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



#### **EXTERIOR BODY PANELS > Trunk Lid**

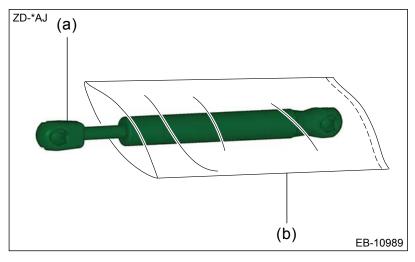
#### **DISPOSAL**

### 1. STAY ASSY TRUNK

#### Caution:

Gas is colorless, odorless, and harmless. However, gas pressure may spray cutting powder or oil. Be sure to wear dust-resistant goggles.

1. Cover with a vinyl sack as shown in the figure.

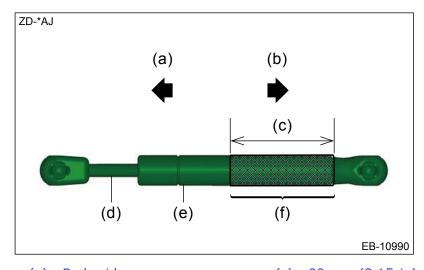


- (a) Stay ASSY trunk
- (b) Vinyl sack

## Note:

## Prevent the vinyl sack from being caught by the cutting edge of a saw.

2. Lift the trunk side slightly with the piston rods fully extended, and secure with a vise. Using a saw, make a hole of 2-3 mm (0.08-0.12 in) at the portion to be drilled, and bleed the gas in the stay assembly trunk completely.



(a) Body side

(c) 80 mm (3.15 in)

(b) Trunk side

(d) Piston rod

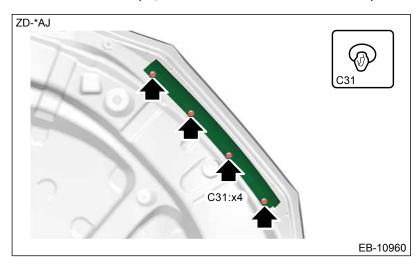
- (e) Cylinder
- (f) Portion to be drilled

#### **REPLACEMENT**



#### 1. SEAL ASSEMBLY FRONT HOOD

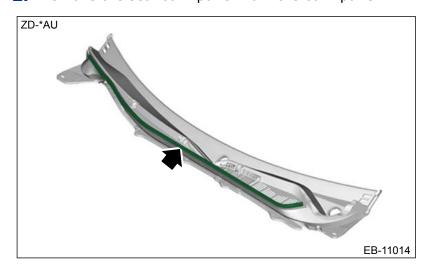
1. Remove the clips, and remove the seal assembly front hood.



2. Install the seal assembly front hood.

#### 2. SEAL COWL PANEL

- 1. Remove the cowl panel. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>REMOVAL.
- 2. Remove the seal cowl panel from the cowl panel.



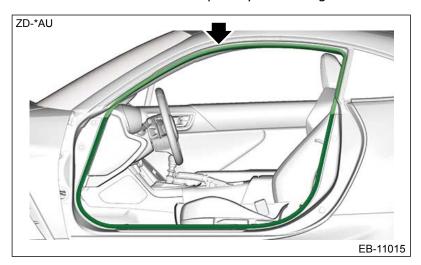
- **3.** Install the seal cowl panel.
- 4. Install the cowl panel. Ref. to EXTERIOR/INTERIOR TRIM>Cowl Panel>INSTALLATION.

#### 3. WEATHER STRIP BODY SIDE FLANGE FRONT

1. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cover side sill front Ft. Remove the cover side sill front Rr and the cove

#### TRIM>Lower Inner Trim>REMOVAL.

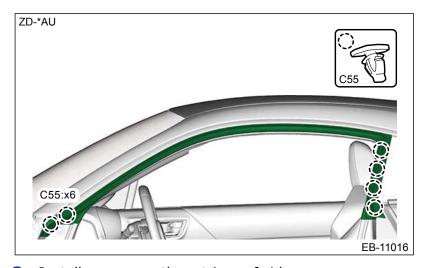
**2.** Remove the weather strip body side flange front.



- **3.** Install the weather strip body side flange front.
- **4.** Install the cover side sill front Rr and the cover side sill front Ft. Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>INSTALLATION.

#### 4. WEATHER STRIP ROOF SIDE

1. Remove the clips, and remove the weather strip roof side.



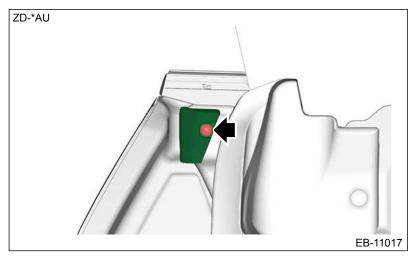
2. Install a new weather strip roof side.

### 5. WEATHER STRIP DOOR FRONT

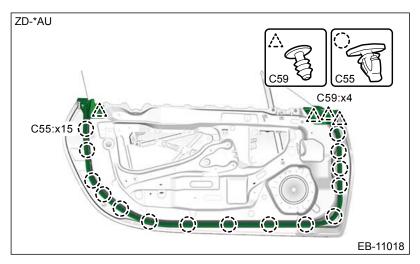
#### Caution:

Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM". Ref. to AIRBAG SYSTEM>General Description>CAUTION.

- 1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>REMOVAL.
- **3.** Remove the screws, and remove the stopper rubber front UPR.



4. Remove the clips and the weather strip door front.



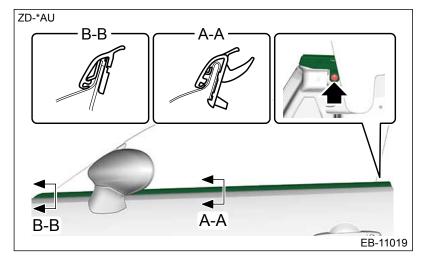
- 5. Install a new weather strip door front.
- **6.** Install the stopper rubber front UPR.
- 7. Install the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>INSTALLATION.
- **8.** Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

#### 6. WEATHER STRIP OUTER DOOR FRONT

#### **Caution:**

Before handling the airbag system components, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM". Ref. to AIRBAG SYSTEM>General Description>CAUTION.

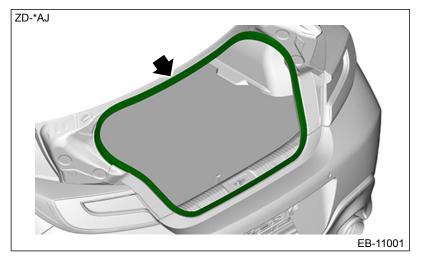
- 1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work. Ref. to REPAIR CONTENTS>NOTE > BATTERY.
- 2. Remove the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>REMOVAL.
- **3.** Remove the weather strip door front. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP DOOR FRONT.
- **4.** Remove the screws, and then remove the weather strip outer door front.



- 5. Install a new weather strip outer door front.
- **6.** Install the weather strip door front. Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT > WEATHER STRIP DOOR FRONT.
- 7. Install the trim panel front door. Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>INSTALLATION.
- 8. Connect the ground terminal to battery sensor. Ref. to REPAIR CONTENTS > NOTE > BATTERY.

#### 7. WEATHER STRIP TRUNK

1. Remove the weather strip trunk.



2. Install the weather strip trunk.